

Attorney Docket No. **FORS-06449** *#1743 jpw*
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Cracauer, *et al*
Serial No.: 09/930,535
Filed: 08/15/2001
Entitled: **Polymer Synthesizer**

Group No.: 1743
Examiner: Nagpaul, Jyoti

**INFORMATION DISCLOSURE
STATEMENT TRANSMITTAL**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

CERTIFICATE OF MAILING UNDER 37 CFR § 1.8(a)

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to the: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on August 12, 2005.

By: *Mary Ellen Waite*

Mary Ellen Waite

Sir or Madam:

Enclosed please find an Information Disclosure Statement and Form PTO-1449, including copies of the references contained thereon, for filing in the U.S. Patent and Trademark Office.

A check for \$180.00 is also enclosed pursuant to 37 C.F.R. § 1.17(p) for filing this Information Disclosure Statement after three months as set forth in C.F.R. § 1.97(c).

The Commissioner is hereby authorized to charge any additional fee or credit overpayment to our Deposit Account No. 08-1290. An originally executed duplicate of this transmittal is enclosed for this purpose.

Dated: August 12, 2005

Mary Ann Brow

Mary Ann Brow
Registration No. 42,363

08/16/2005 CNGUYEN2 00000015 09930535

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MEDLEN & CARROLL, LLP
101 Howard Street, Suite 305
San Francisco, California 94105
608/218-6900



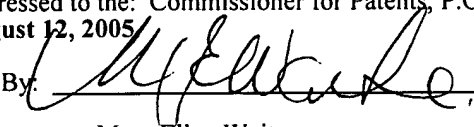
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: **Raymond F. Cracauer**
Serial No.: **09/930,535**
Filed: **08/15/01**
Entitled: **Polymer Synthesizer**

Group No.: **1743**
Examiner: **J. Nagpaul**

INFORMATION DISCLOSURE STATEMENT

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--

Sir or Madam:

The citations listed below, copies attached, may be material to the examination of the above-identified application, and are therefore submitted in compliance with the duty of disclosure defined in 37 C.F.R. §§ 1.56 and 1.97. The Examiner is requested to make these citations of official record in this application.

The following printed publications are referred to in the body of the specification:

- U.S. Patent No. 5,472,672;
- U.S. Patent No. 5,368,823;
- U.S. Patent No. 5,744,102;
- U.S. Patent No. 4,598,049;
- U.S. Patent No. 5,202,418;
- U.S. Patent No. 5,338,831;
- U.S. Patent No. 5,342,585;
- U.S. Patent No. 6,045,755;
- U.S. Patent No. 6,121,054; and
- PCT publication WO 01/41918

Applicants have become aware of the following printed publications which may be material to the examination of this application:

- U.S. Patent No. 6,280,950 ;
- U.S. Patent No. 6,270,730 ;
- U.S. Patent No. 6,264,891 ;
- U.S. Patent No. 6,126,904 ;
- U.S. Patent No. 6,171,555;
- U.S. Patent No. 6,150,102;
- U.S. Patent No. 6,096,276;
- U.S. Patent No. 5,792,430;
- U.S. Patent No. 5,770,157;
- U.S. Patent No. 5,580,523;
- U.S. Patent No. 5,443,791;
- U.S. Patent Publication No. 2001/0022950;
- U.S. Patent Publication No. 2001/0007644;
- U.S. Patent Publication No. 2001/0001035;
- U.S. Patent Publication No. 2001/0000723.
- U.S. Patent No. 3,917,455;
- U.S. Patent No. 4,353,989;
- U.S. Patent No. 4,483,964;
- U.S. Patent No. 4,517,338;
- U.S. Patent No. 4,598,045;
- U.S. Patent No. 4,744,037;
- U.S. Patent No. 4,837,159;
- U.S. Patent No. 5,053,454;
- U.S. Patent No. 5,112,575;
- U.S. Patent No. 5,262,530;
- U.S. Patent No. 5,298,259;
- U.S. Patent No. 5,437,979;
- U.S. Patent No. 5,462,748;
- U.S. Patent No. 5,466,608;
- U.S. Patent No. 5,503,805;
- U.S. Patent No. 5,762,881;
- U.S. Patent No. 5,789,162;

- U.S. Patent No. 5,874,554;
- U.S. Patent No. 5,885,837;
- U.S. Patent No. 5,981,733;
- U.S. Patent No. 6,057,424;
- U.S. Patent No. 6,165,717;
- U.S. Patent No. 6,175,006;
- U.S. Patent No. 6,177,554;
- U.S. Patent No. 6,225,061;
- U.S. Patent No. 6,329,210;
- U.S. Patent No. 4,401,796;
- U.S. Patent No. 4,689,405;
- U.S. Patent No. 4,734,363;
- U.S. Patent No. 4,950,745;
- U.S. Patent No. 5,047,524;
- U.S. Patent No. 5,112,962;
- U.S. Patent No. 5,132,418;
- U.S. Patent No. 5,149,798;
- U.S. Patent No. 5,264,562;
- U.S. Patent No. 5,264,566;
- U.S. Patent No. 5,324,831;
- U.S. Patent No. 5,514,789;
- U.S. Patent No. 5,518,651;
- U.S. Patent No. 5,548,076;
- U.S. Patent No. 5,616,700;
- U.S. Patent No. 5,620,852;
- U.S. Patent No. 5,639,873;
- U.S. Patent No. 5,646,267;
- U.S. Patent No. 5,652,358;
- U.S. Patent No. 5,668,266;
- U.S. Patent No. 5,668,268;
- U.S. Patent No. 5,700,919;
- U.S. Patent No. 5,703,218;
- U.S. Patent No. 5,703,223;
- U.S. Patent No. 5,723,599;
- U.S. Patent No. 5,726,300;

- U.S. Patent No. 5,736,626;
- U.S. Patent No. 5,789,162;
- U.S. Patent No. 5,821,058;
- U.S. Patent No. 5,840,841;
- U.S. Patent No. 6,313,284;
- U.S. Patent No. 5,541,314;
- U.S. Patent No. 5,053,454;
- U.S. Patent No. 6,432,365;
- U.S. Patent No. 6,238,627;
- U.S. Patent No. 5,702,672;
- U.S. Patent No. 3,986,835;
- U.S. Patent No. 6,485,692;
- U.S. Patent No. 5,935,527
- U.S. Patent No. 5,865,224
- U.S. Patent No. 5,153,319
- U.S. Patent No. 5,143,418
- U.S. Patent No. 4,458,066
- U.S. Patent No. 5,099,988
- WO 99/65602
- WO 00/56445
- WO91/13084;
- WO98/10857;
- WO98/36829;
- WO98/39099;
- WO98/57181; and
- User's Manual ABI 3900 High Throughput DNA Synthesizer, Applied Biosystems (2001)

This Information Disclosure Statement under 37 C.F.R. §§ 1.56 and 1.97 is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that any one or more of these citations constitutes prior art.

Dated: August 12, 2005



Mary Ann Brow
Registration No. 42,363

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San Francisco, California 94105
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FORM PTO-1449
(Modified)U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket No.: FORS-06449

Serial No.: 09/930,535

INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Use Several Sheets If Necessary)

(37 CFR § 1.98(b))

Applicant: Raymond F. Cracauer *et al.*

Filing Date: 8/15/01

Group Art Unit: 1743

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Serial / Patent Number	Issue Date	Applicant / Patentee	Class	Subclass	Filing Date
	1	5,472,672	12/5/95	Bennan	422	131	10/22/93
	2	5,368,823	11/29/94	McGraw <i>et al.</i>	422	1340	2/11/93
	3	5,935,527	8/10/99	Andrus <i>et al.</i>	422	131	4/29/93
	4	5,865,224	2/2/99	Ally <i>et al.</i>	141	130	12/20/96
	5	6,280,950	8/28/01	Lipshutz <i>et al.</i>	435	6	10/28/99
	6	6,270,730	8/7/01	McLuen <i>et al.</i>	422	131	6/16/98
	7	6,264,891	7/24/01	Heyneker <i>et al.</i>	422	64	5/18/99
	8	6,126,904	10/3/00	Zuellig <i>et al.</i>	422	130	9/5/97
	9	6,171,555	1/9/01	Cargill <i>et al.</i>	422	104	3/6/98
	10	6,150,102	11/21/00	Mills, Jr. <i>et al.</i>	435	6	5/15/98
	11	6,096,276	8/1/00	Laursen	422	103	8/14/91
	12	6,045,755	4/4/00	Lebl <i>et al.</i>	422	65	3/10/97
	13	5,792,430	8/11/98	Hamper	422	131	8/11/98
	14	5,770,157	6/23/98	Cargill <i>et al.</i>	422	99	9/18/96
	15	5,580,523	12/3/96	Bard	422	50	4/1/94
	16	5,443,791	8/22/95	Cathcart <i>et al.</i>	422	65	8/7/92
	17	6,329,210	12/11/01	Schleifer	436	518	10/29/99
	18	6,175,006	1/16/01	Andrus <i>et al.</i>	536	25.4	3/30/99
	19	6,057,424	5/2/00	Vail, III	530	333	3/24/97
	20	5,981,733	11/9/99	Gamble <i>et al.</i>	536	25.3	9/16/96
	21	5,885,837	3/23/99	Winkler <i>et al.</i>	435	91.1	10/23/96
	22	5,840,841	11/24/98	Zuckermann <i>et al.</i>	530	338	5/8/97
	23	5,541,314	7/30/96	McGraw <i>et al.</i>	536	25.31	8/2/94
	24	5,466,608	11/14/95	Lapluye <i>et al.</i>	436	86	9/7/93
	25	5,462,748	10/31/95	Lloyd <i>et al.</i>	424	484	1/14/94
	26	5,298,259	3/29/94	Lloyd <i>et al.</i>	424	486	11/5/91
	27	5,262,530	11/16/93	Andrus <i>et al.</i>	536	25.31	7/27/90
	28	5,153,319	10/6/92	Caruthers <i>et al.</i>	536	27	3/31/86
	29	5,143,418	7/21/92	Caruthers <i>et al.</i>	536	27	6/18/94
	30	5,112,575	5/12/91	Whitehouse <i>et al.</i>	422	116	2/14/91
	31	5,047,524	9/10/91	Andrus <i>et al.</i>	536	27	12/21/88
	32	4,744,037	5/10/88	Niina <i>et al.</i>	364	497	7/15/85
	33	4,517,338	5/14/85	Urdea <i>et al.</i>	525	54.11	7/13/84
	34	4,598,049	7/1/86	Zelinka <i>et al.</i>	435	287	8/31/83

Examiner:

Date Considered:

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449
(Modified)U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket No.: FORS-06449

Serial No.: 09/930,535

INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Use Several Sheets If Necessary)Applicant: Raymond F. Cracauer *et al.*

(37 CFR § 1.98(b))

Filing Date: 8/15/01

Group Art Unit: 1743

AUG 15 2005

U.S. PATENT DOCUMENTS

Examiner Initials	Serial / Patent Number	Issue Date	Applicant / Patentee	Class	Subclass	Filing Date
	35	4,483,964	Urdea <i>et al.</i>	525	54.11	6/20/83
	36	4,458,066	Caruthers <i>et al.</i>	536	27	3/24/81
	37	4,353,989	Bender <i>et al.</i>	435	287	1/19/81
	38	6,177,554	Woo <i>et al.</i>	536	23.1	6/5/95
	39	5,736,626	Mullah <i>et al.</i>	536	25.3	1/29/96
	40	5,723,599	Klem <i>et al.</i>	536	25.3	3/22/95
	41	5,703,218	Urdea <i>et al.</i>	536	23.1	4/13/95
	42	5,668,268	Tang <i>et al.</i>	536	25.3	11/27/95
	43	5,652,358	Pfleiderer <i>et al.</i>	536	25.3	11/3/94
	44	5,639,873	Barascut <i>et al.</i>	536	25.3	8/4/94
	45	5,518,651	Reddy <i>et al.</i>	252	193	6/8/94
	46	5,264,562	Matteucci	536	23.1	4/24/91
	47	4,950,745	Ishido <i>et al.</i>	536	58	6/27/88
	48	6,313,284 B1	Kwiatkowski <i>et al.</i>	536	25.3	3/30/00
	49	6,225,061 B1	Becker <i>et al.</i>	435	6	3/10/99
	50	6,165,717	Dower <i>et al.</i>	435	6	5/13/98
	51	5,874,554	Gamble <i>et al.</i>	536	22.1	12/13/96
	52	5,789,162	Dower <i>et al.</i>	435	6	6/7/95
	53	5,726,300	Klem <i>et al.</i>	536	25.34	6/15/94
	54	5,703,223	Wickstrom <i>et al.</i>	536	25.33	9/2/94
	55	5,700,919	Seliger <i>et al.</i>	536	22.1	1/10/95
	56	5,668,266	Ruth	536	25.3	5/12/95
	57	5,646,267	Stec <i>et al.</i>	536	25.33	6/5/95
	58	5,620,852	Lin <i>et al.</i>	435	6	10/31/94
	59	5,616,700	Reddy <i>et al.</i>	536	25.3	11/18/93
	60	5,548,076	Froehler <i>et al.</i>	536	25.34	8/13/93
	61	5,514,789	Kempe	536	25.4	4/21/94
	62	5,324,831	Marquez <i>et al.</i>	536	25.3	4/6/88
	63	5,264,566	Froehler <i>et al.</i>	536	25.34	4/26/90
	64	5,149,798;	Agrawal <i>et al.</i>	536	27	4/6/89
	65	4,734,363	Dattagupta <i>et al.</i>	435	91	11/27/984
	66	4,689,405	Frank <i>et al.</i>	536	27	1/4/84
	67	4,401,796	Itakura	535	340	4/30/81
	68	5,112,962	Letsinger <i>et al.</i>	536	27	11/9/90

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(37 CFR § 1.98(b)) AUG 15 2005

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U.S. PATENT DOCUMENTS

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	69	3,917,455	Bak <i>et al.</i>	23	253	5/10/74
	70	4,837,159	Yamada	436	45	9/17/85
	71	5,503,805	Sugarman <i>et al.</i>	422	131	11/2/93
	72	5,437,979	Rampal <i>et al.</i>	435	6	8/24/92
	73	5,762,881	Harness <i>et al.</i>	422	132	10/29/96
	74	4,598,045	Masover <i>et al.</i>	435	34	2/19/85
	75	5,053,454	Judd	525	54.11	2/15/89
	76	6,432,365	Levin	422	100	4/14/00
	77	6,238,627	McGowan	422	130	8/26/98
	78	6,264,891	Heyneker	422	64	5/18/99
	79	5,702,672	DeWitt	422	131	10/10/95
	80	3,986,835	Takagi	422	71	5/13/75
	81	6,485,692	Freitag	422	130	12/4/98
	82	5,744,102	Eadie	422	131	1/30/96
	83	5,202,418	Lebl <i>et al.</i>	530	334	1/24/91
	84	5,099,988	Garran	206	223	3/20/91

U.S. PATENT APPLICATION PUBLICATION

Examiner Initials	Cite No.	Publication Number	Publication Date	Applicant / Patentee	Class	Subclass	Filing Date
	85	2001/0022950	9/20/01	Hall <i>et al.</i>	422	131	5/18/01
	86	2001/0007644	7/12/01	McLuen <i>et al.</i>	422	131	12/19/00
	87	2001/0001035	5/10/01	McLuen <i>et al.</i>	422	100	12/19/00
	88	2001/0000723	5/3/01	McLuen <i>et al.</i>	422	100	12/19/00

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

	Document Number	Publication Date	Country / Patent Office	Class	Subclass	Translation	
						Yes	No
89	WO99/65602	23 Dec. 99					
90	WO 00/56445	28 Sept. 00					
91	WO 91/13084	5 Sept. 91					
92	WO 98/36829	27 Aug. 98					
93	WO 98/39099	11 Sept. 98					
94	WO 98/57181	17 Dec. 98					
95	WO 98/10857	19 Mar. 98					
96	WO 01/41918						

OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

97	User's Manual ABI 3900 High Throughput DNA Synthesizer, Applied Biosystems (2001)
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Examiner:

Date Considered:

EXAMINER:

Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 4

Complete if Known

Application Number	09/930,535
Filing Date	8/15/01
First Named Inventor	Cracauer
Art Unit	1743
Examiner Name	Nagpaul
Attorney Docket Number	FORS-06449

U. S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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